

U S P A T E N T O F F I C E

CLAIMS:

1. A blow head mechanism for blowing a parison in a
5 blow mold of a blow station of an I.S. machine and
cooling the blown parison so that a bottle will be formed
which can be removed from the blow station comprising
a blow head assembly,
support means for supporting said blow head
10 assembly,
first displacement means for displacing said support
means to displace said blow head assembly between a
remote up position and an advanced down position,
said blow head assembly including a blow tube
15 selectively displaceable between an up position and a
down position,
second displacement means for displacing said blow
tube from the up position down to the down position and
then back up to the up position at least one time during
20 the time the parison is blown and cooled,
said blow tube being open at the bottom,
an air deflector having an annular, concave surface
terminating at the top with a vertically extending post
for deflecting air travelling axially down the blow tube
25 uniformly radially outwardly and
a supporting frame for supporting said air deflector
proximate the open bottom of said blow tube.

2. A blow head mechanism for blowing a parison in a
30 blow mold of a blow station of an I.S. machine and
cooling the blown parison so that a bottle will be formed
which can be removed from the blow station according to
claim 1, wherein said supporting frame supports said
vertically extending post coaxial with the axis of the
35 blow tube.

3. A blow head mechanism for blowing a parison in a
blow mold of a blow station of an I.S. machine and
cooling the blown parison so that a bottle will be formed

which can be removed from the blow station according to claim 2, wherein the open bottom of said blow tube has an annular recess and said supporting frame includes an annular flange to be press fit into the annular recess
 5 and a plurality of struts connecting the top of the vertically extending post to said annular flange.

4. A blow head mechanism for cooling a formed bottle comprising
 10 a blow head assembly,
 support means for supporting said blow head assembly,
 first displacement means for displacing said support means to displace said blow head assembly between a
 15 remote up position and an advanced down position,
 said blow head assembly including a blow tube selectively displaceable between an up position and a down position,
 second displacement means for displacing said blow
 20 tube from the up position down to the down position and then back up to the up position at least one time during the time the bottle is cooled,
 said cooling tube being open at the bottom,
 an air deflector having an annular, concave surface
 25 terminating at the top with a vertically extending post for deflecting air travelling axially down the blow tube uniformly radially outwardly and
 a supporting frame for supporting said air deflector proximate the open bottom of said blow tube.